

Fernald

(5)

Harvard Coöperative Society.

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June 29, 1904
On the "Admiral", Baie des Chaleurs.

Left Boston Sunday night, the 26th on the 7 o'clock to St John, arriving there at 10.40 ^{Monday} where I was met by Gen. Hay with whom I explored the ballast lands & wharves before lunch - *Matricaria discidea* & *modica* abundant, also *Diplazis muralis* sc. & three frad-farnus of *Capella*. Lunched at the Hay's, meeting Mrs. H's, niece, Miss Harriet from Canada. After lunch Mr. J. Brittain called & joined Mr. H. and me in a walk about the St John park-system. Northern plants as expected. In a bog *Galium labradoricum*, *Rhamnus*, *Leupetrum*, *Carex Rodenowii*, *Triglochin maritima*, etc.

Took 7 Pm. night train "Maritime Express" to Miramichi, but discovered five minutes before leaving that no dining car until breakfast & no buffet. So quick lunch of 1 sandwich & an orange for dinner. To bed at 8.30, roused out at Miramichi at 3.15 am. With 4 1/4 hours to wait and a clear morning light, devoted myself to following all roots to safe distances from the Station. Reveal French Canadian small village with cluttered nasty streets & broken sidewalks. Best botanizing of the morning a half mile down the Restigouche. There in thickets with the everywhere abundant *Aem. can. & riparia* & *Sium macrophyllum* a large colony of *Osmorhiza confertifolia* & a small patch of *O. divaricata* & *Thalictrum hirsutum* on R.R. gravel. On ledges *Astragalus alpinus*, *Oxytropis campestris*, *johannensis*, *Hydyspermum*, *Anemone multifida*, *Senecio Balsamitae*, etc. abundant. *Viola* (glabrous plant of the St. John & Brookville) abundant in gravel, in flower (clear violet) next the water in front with blue.

capoules on the talus & slopes above. There
mingled with Diaparia americana, etc. One plant
of Poa alpina in a wet crevice, with Trisetum
& Carex capillaris, var. elongata.

Train of Atlantic & L. Sup Ry of course late (15 min)
in starting. Same fat French-Scotch Condr, with
black monstache & ruddy face. Same cabbage cut,
on the up-grade just beyond Esplanade station
the engine broke down - literally one of the pipes
broke off - and could do nothing, so we slid
down the slope as far as gravity would take us
and waited while the conductor walked back $1\frac{1}{2}$ mi.
to Oak Bay station, to telegraph (no telegraph at
Esplanade sta.) The west-bound train at noon
brought the General Manager, Seales, on his way to Campbellton,
& the assurance that the other (3^d engine) of the road would
be there shortly, the fourth engine being in repair shop -
all day we waited by the disabled train, and at 4 P
went with a Montreal drummer, Percival, and a
St. Godfroid, Bonaventure, merchant, Le Gallien, a
man of Jersey origin, who had never before left the
region of Paspébiac & was now returning from
a wanderings two days in Montreal & Quebec. We found
a farm, Brown's, where we were cordially taken in to
bread & milk. During the wait I explored a big
salt marsh which was covered in distinctly colored
patches with Carex maritima, C. norvegica, C.
glauca, Scirpus rufus, & Juncus balticus, with

Snada & blamye. mixture. Its border has
Carex aurea & Galium labradoricum & a thicket
with Rosa lucida unbudged, Prunus virgin & Vib.
opulus in flower -

An expedition to Essequima R. for water shows
Viola of Aroostook & Testifouche abund. here. The 3^d-
engine of the road arrived at 7 p.m. - 9 hours after
the breakdown - she herself having given out near
Caledon & having to lie by for repair. Supper
at 8.30 at Giroux's, decent food, good cedar swamps
near & Paspéigash Mt. within reach - as the
RR. water tank in Caledon under the big cliffs, the
sandstone - conglomerate covered with Thuya, Shepherdia
& Artemisia sp. - (young). Ar. New Carlisle soon

after 1 A.M. too late to spend the afternoon in the
willow search I had planned. Put up at Menard's.
Tolerable. Menard fancies & anxious to please, but here
as everywhere else in ~~the~~ too much gin.

This morning called at Caldwell's - C. sober! Lawrence
as usual. L. thinks he may be a brother-in-law of E.F.W.,
for L's sister-in-law "out in these parts" has written that
she is going to marry a man named W. who has \$10,000
in the bank!

Menard was to get me to the boat at Paspéigash, as
she has not touched at N.C. since she smashed herself
there against the wharf. Is my trunk taken care of
P. The method is to guess whether the Admiral will
touch at N.C. or P. Maybe she will, maybe she
won't. This time she stopped at N.C. & we drove back.

Met at boat by Cyrille Leroi, Guardian of
the Grand River. Cyr. a gentlemanly Indian.
Too late to go up river tonight, so Cyrille
leaves me at the comfortable home of John
Carberry.

June 30 -

After breakfast find a pubescent small
form of *Ranunculus abortivus* everywhere in grassland.
Mrs. C. directs my attention to a small cedar swamp
where "orchids" (*Sanacenia*) grow. Great *Urtica* in
Ordinary Cedar swamps thins, & among them *Scirpus*
caespitosus, many good willows, *S. candida*
here, ~~seeming to pass to~~ ^{near life} *S. glauca* splendidly fruited,
S. chovae-Anglicae, low spreading shrub with glossy
foliage, but as at N.C. in 1902 no fruit, *S. mytilifolia*
etc. The *Viola* of Marshall swamps
abundant & beautifully flowered, clearly a bog
state of river-bank plant. In the mossy knolls
under *Empetrum* & *Ledum* *Rubus arcticus* in
beautiful flower - flowers rosy pink, the leaves
lustrous, firm & slightly glutinous. Some plants
with habit of *R. triflorus* & seeming to pass into it.

Cyrille came at 9 & with his son John took
me up river. Splendid cliffs almost the length
of the river, with occasional alluvial or
gravelly flats. The common trees -

White Spruce, Arbor Vitae, Fir, Balsam Poplar,
Populus amur. & Sitchense both flowering, and
low growth of Alnus ^{molli's} ~~europ.~~ or micana. Tabernaem.
Opulus & pauciflorum - Prunus birg. & Corylus rostr.
On the beach below Cyrille's Salix glaucophylla.
pellita, cadata, maackenziana? & a large erect
shrubby species (10 ft.) possibly S. argyrocarpa -
We meet Messrs. Cabot & Richards fishing at the
Grand Camp. Mr. C. a tall very man of 70+,
cordial & hospitable. At the Grand Camp the
beach covered with various strange willows -
the common grass Poa alpina, the common Carex,
C. concinna on rocks or in alluvium or on knolls,
like Maine C. deflexa, C. capillaris everywhere.
Two Antennarias abound one resembling petaloides
the other apparently the Mattawamkeag R dwarf.
Viola conspersa in alluvium with Poa albosced.
Equisetum pratense, Polygala pauciflora (infl.)
Petasites (3-4 ft.) Viola scaberrimula, & Tomouk's
obovata! Senecio Balsamitae very variable,
perhaps two species. Carex echinacea everywhere
& Anemone parv. in fruit on all rocks &
barns & panel. Epilobium Hornemannii on the
beach near the cove, & some small patches of

Dryas Drummondii, *Veronica serpy.* &
var. *borealis* both frequent - *Ranunc.*
repens in recently disturbed places,
obviously introd. Reach M. Cabets

camp at the junction of the two main
branches at 6 & I am given a whole dog
camp, well equipped, to myself - Beautiful
place, with dipping ^{slate} cliffs opposite.

July 1.

Up river in Gaspé Coles as far as Round
Rock pool in Trarneau township - 14 mi
from mouth. Ledges, cliffs & gravel
covered with many handsome species -
Oxytropis campestris, var. *johannessonii*
occasionally dwarfed in steele banks &
with capitate clusters. *Hedysarum*, *Primula*
ornitassinica, *Anem. parviflora*, the fls.
with with lavender to blue tinge outside at base.
Pinguicula only beautiful
Taraxacum alpinum abundant, bright
clear yellow. *Cornica* ^{alp.} handsome, just
coming out on the shelves. *Thalictrum*
alpinum forms almost continuous
dark glossy green carpet, wherever moisture
& shade. Stamens deep orange brown -

Shepherdia looks silvery green at distance.
Retrostaphylea local. More than
yellow. Sisyrinchium splendid,
the very pale glaucous wings & leaves
accumulate. Cypripedium spectabile
by thousands in gravelly or sandy
alluvium! with Lewisia aurea, Populus
& the new Comandra which is flowering
sparsely this year. Catalpa
Fernandii abundant in fine flower.
Cypripedium pubescens & pavilionum
& Valeriana sylv. abound everywhere
in rock crevices! Cold shaded cliffs
at Round Rock covered with Gutierrezia sp.
Pellaea gracilis & a few plants of
Hedera ^{montana} ~~montana or eleagnus~~ montana ^{to} montana.
Humulus. Arabis Lemmonii & Draba
arabizans on sunny cliffs & talus.
(over)

July 2.

Hot & muggy. Down river to Grand Coulee.
Salmon large, won't rise, though
hundreds of them in river. Wet cliffs

carpeted in spots with

since July 1 -

Most favorably located & colored
carpeted for areas with Dryas
Drummondii - clear yellow half-
nodding fls -

The Anemones prevailing - fine
typical A. dipensis, & frequently
good G. multifida with red or
white fls. Large plants 2 ft.
high like repens but leaves of
multifida - Others similar but
fls. red. the most splendid species
of the genus - if var. A. Richardsoniana

from above -

Salix spumosa, always in
mass. Deep cold cleft above
Snow Camp has Asplenium viride
& Hebe glabella.

Heavy rain during night July 3 -
Sunday, no fishing. After breakfast

Mrs. O. K. & I walk up the big
brook (West branch; for a mile
Cliffs of west bank very high & steep,
nearly all overhung by humus & mossy
tufts in which find tufts of
Horridia glabella - at 3 P.M.

Dr. J. H. Lavoie of Percé, Commissioner
of Saginaw Co. arrives for business with
Mr. C. At 6 O'Connell takes him and
down to Mr. Cuthbert. Mr. Lavoie
recommends me to put up with at
Percé at the house of Abram
Lefebvre. John Scott of
Paspébiac, spending the night at
Cuthbert's is jolly Scotchman & recommends
his house as having no ^(dormitory), He is
also ready to drive us about country
when we reach his district.

July 4
By steamer to Dalhousie

July 6

To Rivière du Loup & Fort Kent -

The following were in flower on Yarm River
on 12th inst of July -

Clamato verticillaris

Anemone perfoliata

" *multifida*

" *Richardsonia*

" *hibernica*

" *canadensis*

Thalictrum polygamum

" *album*

Ranunculus cymbalaria

" *abortivus*

" *repens*

" *sepi*

" *acris*

Calla pal.

Asclepias tuberosa

Saxifraga

Campanula

Crabio furcata

Draba araliensis

Viola Caboti

" *blanda*

" *menziesii*

" *conspicua*

" *adaminensis*

Stellaria lanceolata

Cyrtis occidentalis (bushy)

Acer spicatum

Biggela parvifolia

Triplaris repens

Corynephorus canadensis

Hedysarum hibernicum (bushy)

Prunus pennsylvanica (small)

R. virginiana

Rubus arcticus

" *triplex*

" *strigosus*

Lycopodium obscurum

Glom. pilosa

Fraxinus viridis

" *canadensis*

" *americana*

Patula patens (bushy)

" *alexandrina*

Cynus americana

" *sitchensis*

Croton tiliaceus (small)

Amelanchier alnifolia

" *aligandensis*

" *passiflora*

Mitella nuda

Ribes laurum

Spilobium asperum (partim)

Hieracium (Barclay)

Cornus canadensis

Lonicera integrifolia

Comarostaphylos (partim)

Arctostaphylos

Cornus canadensis

" *stolonifera*

Sambucus racemosa (partim)

Viburnum Opulus

" *pauciflorum* (partim)

Lonicera

Lonicera americana (partim)

Hieracium

Galium labradoricum

" *palustre* (Barclay)

Vaccinium myrtillus

Erigeron annuus

" *phloides* (Barclay)

Antennaria

Achillea millefolium

Chrysanthemum

" *leucanthemum*

Senecio

" *Bals.*

Arnica

Taraxacum officinale

" *officinale*

" *palustre*

Vaccinium canadense

" *oxycoccos*

Epigaea repens (partim)

Andromeda glaucophylla

Lecanodermis

Monarda (partim)

Epigaea repens

Trientalis

Primula mistassinica

Fragaria virginiana (partim)

Syringa vulgaris

Menyanthes

Myosotis sylvatica

Veronica

" *scutellaria*

" *longifolia*

Castilleja parviflora

Athyrium

Pinguicula

Polygonum viviparum

Cornus canadensis

" *richardsonii*

Alnus crispa (partim)

Empetrum (partim)

Carolinia

Listera cordata

Hab. Lycopodium

Cyrtopogon pubescens

" *pauciflorus*

" *spectabilis*

Onosmodium

Epipactis atrorubens

Andropogon scoparius

Andropogon scoparius

Eupatorium

" *amplexifolium*

Clintonia

Tofieldia glauca

Tofieldia glauca

Triglochin palustris

" *maritima*

Eleocharis acicularis

Scirpus cespitosus (fr)

" *atrovirens* (fr)

Syntherisma sanguinalis (fr)

" *capitata* (fr)

" *palustris* (fr)

Carex stricta

" *lentis*

" *mariscus*

" *aquatica* (fr)

" *lasiocarpa* (fr)

" *acuticarpa* (fr)

" *flacca*

C. cypripedium

diversiflorus (fr)

aurea (fr)

fluminea

perfoliata (fr)

Conium maculatum

scirpoides

polytrichoides (fr)

trifida

Cypripedium

exilis

stellulata

altissimum

terrestris

hercynicum (fr)

Thalictrum flavum

quercifolium

foliolatum

Poa alpina

" *alpestris*

July 5-10 Fast Kent with Jones
Past. Day,

July 11 Start with Collins for the
St Lawrence - Miss Shaw to Miss Brooks
on train bound for the Saguenay - Temiscamata
mixed train. First half of trip 2nd
class rest of car filled by drunken river-
drillers. Dined at Hotel Dame du Lac -
Ar. at R. du L. in Champlain - St. Lawrence,
Lansley ferry - Ladies decide to wait over
for bright weather. Get good rooms at 11th
Bellevue. Start work after supper -

Scrub on marsh in fine fl.
July 12 Drive in morning to the big marsh
betw. R. du L. & Lacoma - *Pyrola minor*
just passing from bloom - *P. asarifolia*
in woods mostly white, with faintest tinge of pink.
In grass by roadside a large *Campanula*
abundant. Fls. clustered resembling *Androsace*
Androsace. Big marsh in fine order -

Pedicularis palustris
With it in spots *Stellaria humifusa* & *S.*
Crassifolia. *Microst. monoph.* abundant.
also *Thymus rufus*, small *Ranx Goodenii*
sa, Iris Herb in fl. & fr on pond & rocks

In P.M. All well along shore back of
Pellew, Thal. confine in fl. *Zygadenus*
lanceol. *Montia linearis*. *Poa*
glumalis in fine shape - *Carnus succinea*
abund. on crests but mostly past. A
few fls. - *Grummaea*, abund. here a
little in open.

C. & I follow Teinise, Light track
Toward Tein. Remark - *divaricata* &
Poa glauca abund. *Urtica* trees common in
open fields. *Microstylis* common in forest
on steep slope.

Fog continues

July 13 - C. Mrs B. & I drive to
Fraser Falls - *Lithosp. offic.* common on
Falls. On rocks below falls
small *Hieracium vulgatum*. *Cypripedium*
infl. By falls - *Aspid.*, *Farfugium* scarce.
Saxif., *Aizoon* in fl. but local - *Poa alpina* -

&c -

P.M. clear. To Chishti with the
Leries. Splendid evening, but there is an
haze above Tadoussac.

Jul. 14. Stunning day down Saguenay

Leaves of *Staphylea trifolia* Bay. No interesting
plants. Evening moon walk at Tadoussac

Remains of *Senecio* found in sand near
the Hotel. Fls white or cream-colored. Yucca,
Arctostaphylos & *Carex* Humboldtii abundant

in Clarendon Group Sabina & Pinus Banksiana
on Shores -

Return to R. Dr. L.

Ladies go on to Que. In evening C. & S.
walk to Francisville for shopping -

Jul 15 To Bic. Heat town. Fair
Hotel kept by Michel Pineau. Simple
but good fare. Clean - accommodating.

C. & S. get use of large sample room for
a week. Take short walk before supper.

to see headland by wharf - Chaplain in the
fading shrub with fruit below across
Alouette river - etc.

After supper walk back to town. Rich evening
woods - Singon acris on leg etc

Jul 16 With comfortable buckboard of Chaplain
on back of line for the trip
First to the 18th island east of the bay

crossing at low tide, This a cliff
 landing with big caves in the conglomerate
 sandstone & flinty rock - *Agrilecia* com.
 abund. *Draba cuneata* everywhere dead & ripe
Hesperanthes either pink or cream-white.
Fraxina aurca. everywhere with 1 or 2 along a
 glacial fr. *Saxifraga virg. fr.* *Potentilla*
litorea tall & green in shade. *Antennaria*
 can hardly in fl. - *Primula farinosa* abund
 in fruit, a few in fl. in cold caves -
Zygadenus barely in fl. - *Microstylis*
 mon. abund. everywhere in crevices under rocks.
 The glacial very variable in size & color. See
 some beautiful water-lilies & water-lilies.

On Island beyond 1st and 10 miles apart,
 Return to mainland & drive around to the
 a Michaud. Then cross to island east of Michaud.
 Baptiste Michaud's. Rock a fine conglomerate
 sandstone. *Saxifraga* *Algon* everywhere.
Symphoricarpos pauciflorus on dry slopes,
 & a pale crisp *Hedera* ^(oregana) *aligna*, in typical
 crevices. *D. sola* ^{areolata} ~~laevigata~~ abund in
 sunny places. *Thalictrum* confine one
 clump on shore - *Tineo* *farces* in *action*

the mountain. To explore mt. west of
Michaud's. Steep slaty & lumpy rock,
with big cliff above, 500 ft. by C's
anemoid. Ordinary fl- of *Arbutus*
& spruce woods. Cliff covered with
Aspid. fragrans, which becomes abundant.
We walk on it. Here knot our glass
rope & find it a splendid means to explore
cliffs & lower slopes. By means of it
find *Saxifrage caesp.*, & spend much of
afternoon exploring from above for the scattered
tufts. *Lycop. or Selago* scattered.

On summit *Lycopod. complanatum* (typical)
fully fringed. *Cornus circinata* com-
-
Plus typhina fl at 2 ft. *Habenaria* rock
abundant. *Andis brachycarpa*, *Cicuta* typical
"Cory Backa" abundant on crest & so. slope.

July 17. Drive to big exposure
Rip west of yesterday's loc. Palapa
1 mi. west, beyond cultivated fields.

At West base of yesterday's Carr fire
Eucis discolor? among firs. In
low woods *Andromeda* *sp.* In
clearing *Leucophyllum* beautiful. fls.
white with bright yellow eyes.
Gentiana *Amabilis* in fl. in dry fields
Go with rope up cliff at head of cove.
Aspid. *fragans* very abund. Soon find
Asplen. viride
Woodsia glabella in damp pockets of slate
rock. But while collecting it I break open a
yellow-patched mat. Escape gradually with
it's aid the rope with 7 slips - *Saxifraga*
crenata low as *Asplen. viride*.

On crest *Lyopetalum* *complanatum*. The rich
mats of moss carpeted by leaves of *Andromeda*
var. *viridula* & among them *Hab. Martii*
Gentiana *viridula* in bud abund. No soon-
leaves *Andromeda* to hang on them!

Down by rope at edge of the great cliff - of
Pigeon peak - about 600 ft. Reach the
overhang in a cave at the top. *Asplen. viride*
pale abund. In damp *Woodsia*
glabella & *Asplen. viride* the other of *Woodsia*
glabella low as *Asplen. viride*.

Swing by means of rope & chains, by first
lift. Difficult work but Potamogeton nuda

Festuca brevifolia, Stachys arvensis, &

small Calamagrostis ovata -

Carex flacca in one spot - Avena bulbosa
scattered but rarely flowering on cliffs

At base of cliffs Poa pratensis very large
Urtica urens very large & soft, full of fruit.

June 16 To Cap north of Rappahannock

Much like yesterday - but cooler & drier.

Samolus, Albizia & Carex here in fl. - Poa

repens virginica - Albizia in fl. -

Potamogeton simplex in damp places - Potamo

geton lancea - & large spring Agrostis, flag

measured 16 1/2 in tall! Poa rep. - fruit in fl.

Andros hermaph., Commersonia diversa abundant

In moss on cliffs scattered flowering Carex,

Albizia vir., Wormwood -

Potamo at low water to 3 1/2 ft of

June 16 - East of Rappahannock, Agrostis repens
in fine fl., Potamo simplex with Samolus.

except - one mat 3 ft. solid.

Crest ^{perennial} ~~rep.~~ in fruit on hot

Ypon's rock. One ledge covered

with ^(Cecid.) *Andrus Halimifolius*, *Dampiera*

Below the *Bomphium* *Lumina*

Draea arbuscula, *Mosses* -

Euphorbia, *Andrus brachycarpa*

all over. *Carex* *Backe* on dry slopes.

Take 22.42 train to Matapua -

July 19 - 2.45 am. arrive at Matapua.

Trunk contains *fruits* & food *mining*.

Follow *Restigouche* for mile down river.

Breakfast on rocks. In addition to

plants of June 28 *Astagalus elegans* in fruit

fr. at wooded crest of ledge - *Arenaria*

Richardsonia abundant, with *Agrostis* just *set*

& *grasses* a multigrid dead *sp.* & *pink*

flyings. a *riparia* *canine* but not *flying*.

Senecio *Bals.* with & without *rays* -

Carapae white & red- *fruits* *Actaea* *rubra* &

can detect no other diff.

By A.T.F.S. to Houma Station. Put up
at Custom House. run by collect

Trunks in general store, whence an empty
corner. This P.O. St Jean l'Evangeliste.
Houma P.O. 4 miles up river at R.R. sta.
Houma West!

From line up river to this is alluvial.
Valley flat & fertile, good crops - Few small
plants, *Sandwichia* ^{microcarpa} ~~microcarpa~~ *microcarpa*
microcarpa, *Bentonia* *microcarpa* - *Bentonia* *microcarpa*
- & *Jack*, *Carex* *microcarpa*, *Salix*
Claytonia *microcarpa*, *Elm*, *Sugar* *microcarpa*
& *Panicum* *microcarpa* *microcarpa*

After supper to bag back of house -
in its cage *Pyrolo* *microcarpa* with large
greenish white flowers - *Pyrolo* *microcarpa*!
Pyrolo *microcarpa*!
Bag to be exposed later

July 20. All to bag which with exception
of *Bomarea* *microcarpa* might be in Mass. -

Bomarea *microcarpa*, *Pyrolo* *microcarpa*, *Picea* *microcarpa*, *Larix*
Larix, *Andromeda*, *Kalmia* etc, Then up
rocky slope covered with *Petiole* *microcarpa*

Thlas typhina. Two spec. *Portulacium*
simplex in crevice. Scattered *Portul.*
frustrum intumes. Then through spruce
woods - *Lycopodium compl.* *Distachyum*
salinae compl. *intense.* etc.

Then down river to Barachois &
Houvelles. In alluvium of river
Clematis Virg. *Ranunc. acris.* *Acer rubr.*
Syrphoc. agest. *Bidens frond.* *Prenanthe*
rac. *Trillium aestivum* & com. *Carex*
intumescens & common.

On Barachois ordinary salt marsh
things.

July 4. To Caledon. Excellent
accommodation at Allen's Hotel with the
wharf of an empty store for our work.

Rm. along beach to point opp. Light-
house. Cattle on beach. abundant
Meridops Lys. & *Echinop.* *Hipp.*
Stellaria longipes lacte. *Eumyrtidaceae*
Gravel. *Portulacium Linn.* scattered,
Gilia linearis in small patches.

July 29. Thu. Short walk to salt-marsh
near town. Panzeria parviflora in damp place with
Scirpus pauciflorus. Marsh ordinary. Hypogonum
abundant on gravel banks about town, also Astragalus
abundant. Collect various common things.

Mon. To Tracorrigast Point. Far better than
Carleton Pt. Arenaria nana, Stell. complanata,
Arctis hirsuta & A. brachycarpa abund. in sand &
gravel. Botrychium. Lunaria very abundant
amongst Juniperus Sedum procumbens.
A small Grass Diala of the lanceolata group abund.
Agropyrum tenerum, Carex flacca & a slender
perennial stemmed Equisetum scattered.

July 23. Town Rock. Sodium bicarbonatum
in rocks. By brook near mill Juncus sp. &
var. insignis. Silene abund on gravelly bank.
Peace Dr. at 10.15.

Mon. Up the small hill south of Tracorrigast
Int. Papaver Rhoeas & Centaurea Cyanus & C. Scaberrima
in grain fields. Harbort rock provides to climb
gritty clay-rock, sharp, & no vegetation. Tough
digging. Georgina Anglica local? G. —
somewhat like tricolor. The flowers creamy with
bronz tips & fragrance of Spirea the lanceolata.
Just beginning to flower. Comorshyas abund.

Festuca — Common in meadows at Summit
(850 ft).

July 24. To Ptarmigan Mts. Grass on
gravelly soil and stone conglomerate. Stems
in edge of large Cedar Swamp — Orchis
columnifolia living abundantly. All the young
shoots develop under the leaf, i.e.
plant is prostrate. Epilobium pellucidum
& slightum. Lutetia callosa sub, abundant.
Small Kalmia, Carex gymnocarpa etc. An
Siapherium near polytachyon but very
slender small & few-flowered.

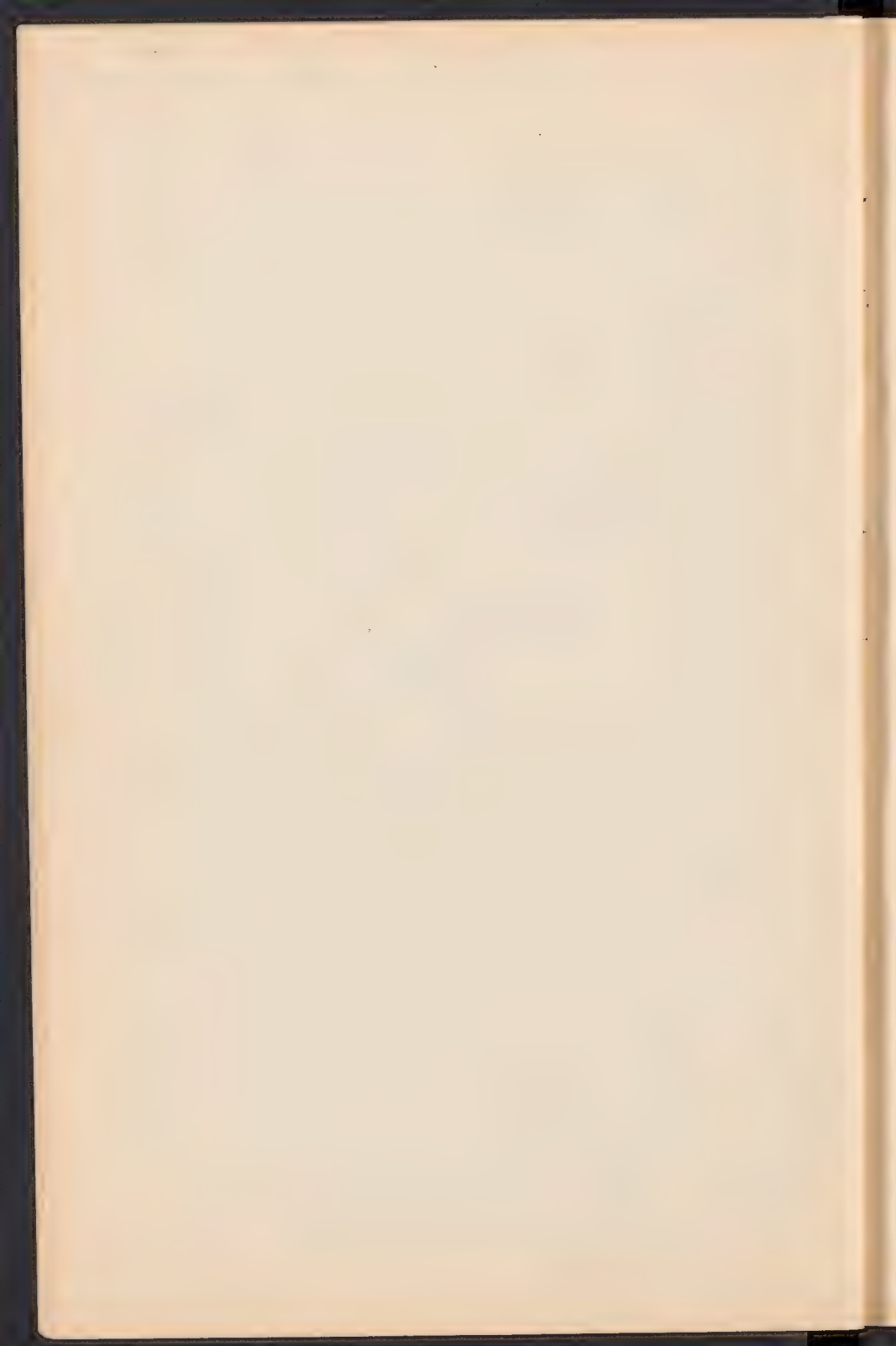
Through burn now covered with
sagebrush. Fine forest. Then up steep rocky
slope through white Birch forest. Caribou
tracks & droppings everywhere. Occasional
bear signs. Slope a dense tangle of
Clematis verticillaris in upper part.
Stiff hard tree trunk over large sharp
rock. Carex Baculi abund. from 1100
ft to Summit, which Collins' aneroid
(corrected) makes 1930 ft. Cliffs under
the Summit — crevices 150-300 ft high, with
long dry talus slopes below. Page 19

rock in one direction, C in other. At first
sight barren - except for carpet of Saxifraga hypnoides,
Draba silene & arabidans - various Peas & Potentilla.
At east base of cliffs Aspidium Louchei abund.
Pellaea fraxinifolia abund. also Aspid. papuanum.
Slender Salvinia peruviana (whitish) on moist
& grassy places. Ribes resembling agrostoides
~~folia~~ but with supra-axillary leaves & spirals of
spines, abund though mostly sterile. Potentilla
lividula & Rosa blanda on cliffs way to summit.

Echinopernum deflexum in thickets on shelves.
On chimney between recently burned cliffs & that
below the cross Echinop. deflexum, Asplenium viride
in cold crevices. Lycopodium heterophyllum fr. fr.
Grows just above a slide. & in a crevice P. fr.
sterile plants perhaps of Libocladia procumbens.

July 26 To ^{hathhouse} ~~the~~ hathhouse to catch Am. Sp. Chickadees when
are not roosting in Grope!

Aug 19. First open mouth to show that the
hooker the mouth for a greenish
throat, as usual, for the time.



Plants of Alpine and Subalpine Regions
Mt Albert, 1905, '06.

Equisetum arvense

Allen's Ravine up to 3000 ft.

E. pratense.

Allen's Ravine up to 1800 ft.

E. sylvaticum

Allen's Ravine, in wet places to the crest.

Selaginella selaginoides

Wet hornblende or serpentine slopes and in bogs.

Lycopodium Selago

Hornblende and serpentine slopes -

L. Selago, var. appressum

Hornblende crests.

L. lucidulum.

Woods of north slope, to timber-line.

L. lucidulum, var. parophyllum.

Camp at timber-line, north slope.

L. annotinum.

Slopes -

L. annotinum, var. pusgens -

Crests (hornblende)

L. sitchense

Semi spruce, etc. of Flagg staff Peak, and at head of
Asbestos Brook.

L. alpinum.

Damp north slope, on hornblende.

Polypodium

Phegopteris polypodioides

Damp slopes, alpine meadows, etc.

P. dryopteris.

" " " " "

Adiantum pedatum, var. aleuticum

Serpentine from the Crest to Lac des ^{deux} Diables.

Locally on upper tumbled in ravine, where seemingly washed down from top -

Pteris aquilina.

Among low spruces along Snow Brook.

Eupatorium densa.

In dry serpentine, southern slope of Devil's Gulch -

Asplenium trichomanes.

Small plant in wet " " " " " "

A. Filix-foemina.

Abundant on damp slopes.

Polystichum scapulinum.

Southerly slopes, on serpentine (usually dry) Asbestos Brook and Devil's Gulch.

P. Braconii

Along Ravine below timberline.

Aspidium fragrans.

On a boulder in the woods, Macoun's Brook.

A. spinulosum, v. dilatatum

Damp slopes.

Cystopteris bulbifera.

Macoun's Brook.

Cystopteris fragilis.

Macoun's Brook. Allen's Ravine below 2500 ft.

C. montana

Macoun's Brook. Allen's Ravine below 1500 ft.

Woodsia ilvensis

Hornblende slope north of Flagstaff Peak.
Allen's Ravine.

Osmunda Claytoniana

Hornblende Slopes.

Cheilanthes Nuttallii.

Allen's Ravine, below 2000 feet.

Larix laricina

Sea level and dwarfed on serpentine to the summit.

Picea canadensis

Chiefly on Hornblende.

P. mariana.

Abundant but dwarfed on Seep., rare on Hornbl.

Abies balsamea.

General, but dwarf.

Thuja occidentalis.

Allen's Ravine below 1600 feet.

Juniperus communis, v. montana.

General, most abundant on serpentine.

Hieracidae adonata

Bay south of Flagstaff Peak.

A. alpina

Hornblende Crest & crevices.

Eryzopsis asperifolia

General in damp open places.

Milium effusum.

Macourine Ravine. Allen's Ravine up to 3000 ft.

Phleum alpinum.

Common on Hornblende slopes.

Cuma latifolia

Common on slopes and meadows.

Agrostis borealis.

Common on slopes.

A. hymenalis, v. gruinata.

Snow Brook, Devil's Gulch.

Calamagrostis canadensis.

Common

C. Langedorfii.

Hornblende slopes, near Crest.

C. neglecta, v. borealis.

On the serpentine by small pond above Allen's Ravine, also on serp. small pond at head of Ruisseau à Plaque à Malade.

Deschampsia caespitosa, v. alpina.

Common on scarp.

D. flexuosa

Common

D. atropurpurea

Boys and meadows. Hambl. slopes, following
down brooks of north side to 2000 feet.

Melica striata.

Common

M. striata, forma albicans.

Common.

Trisetum subspicatum, v. molle.

Allen's Ravine.

T. melicoides.

Macoun's Brook.

Xanthoxia spicata

Devil's Gulch. Snow Brook.

D. intermedia.

Bag, Head of Asbestos Brook.
Asbestos Brook, Snow Brook, and Devil's Gulch.
Serpentine meadow E. of East Peak.

Poa alpina

Macoun's Brook. Allen's Ravine.

Poa

Allen's Ravine

Poa glauca

Macoun's Brook, Allen's Ravine below 1800 ft.

Festuca altaica

Common on serpentine.

Agropyrum biflorum

Bag south west of Flagstaff Peak.

A. novae-angliae?

Bag sw. of Flagstaff Peak. Devil's Gulch. Snow Brook.

A. caninum

Allen's Ravine below 2000 ft.

Scirpus caespitosus

Abundant.

Eriophorum Chamissonis

Bag sw. of Flagstaff Peak. Pond-hole in serpentine.

E. callitrix

Bag sw. of Flagstaff Peak.

E. polystachion

Bag sw. of Flagstaff Peak.

Carex acuta

Allen's Ravine, below 2000 ft.

C. tribuloides, var. reducta

Allen's Ravine, below 1800 ft.

Carex Denoyana, var. Balanderi
Macoun's Brook.

C. trisperma

Bog sw. of Flagstaff Peak.

C. lagopina

Springy spots and crevices of humblende, north slope.

C. canescens

Pond at head of Kuisseau à Plaque à Malade.

C. brumescens.

Common

C. stellulata

Recurrent in boggy places

C. stipata

C. scirpoides

Common

C. deflexa

Allen's Ravine

C. pedunculata.

Macoun's Brook.

C. vaginata

Bog sw. of Flagstaff Peak.

C. laxiflora, v. leptonervia

Humblende slopes.

C. arctata

Humblende slopes.

C. capillaris

C. capillaris, var. elongata

Macoun's Brook.

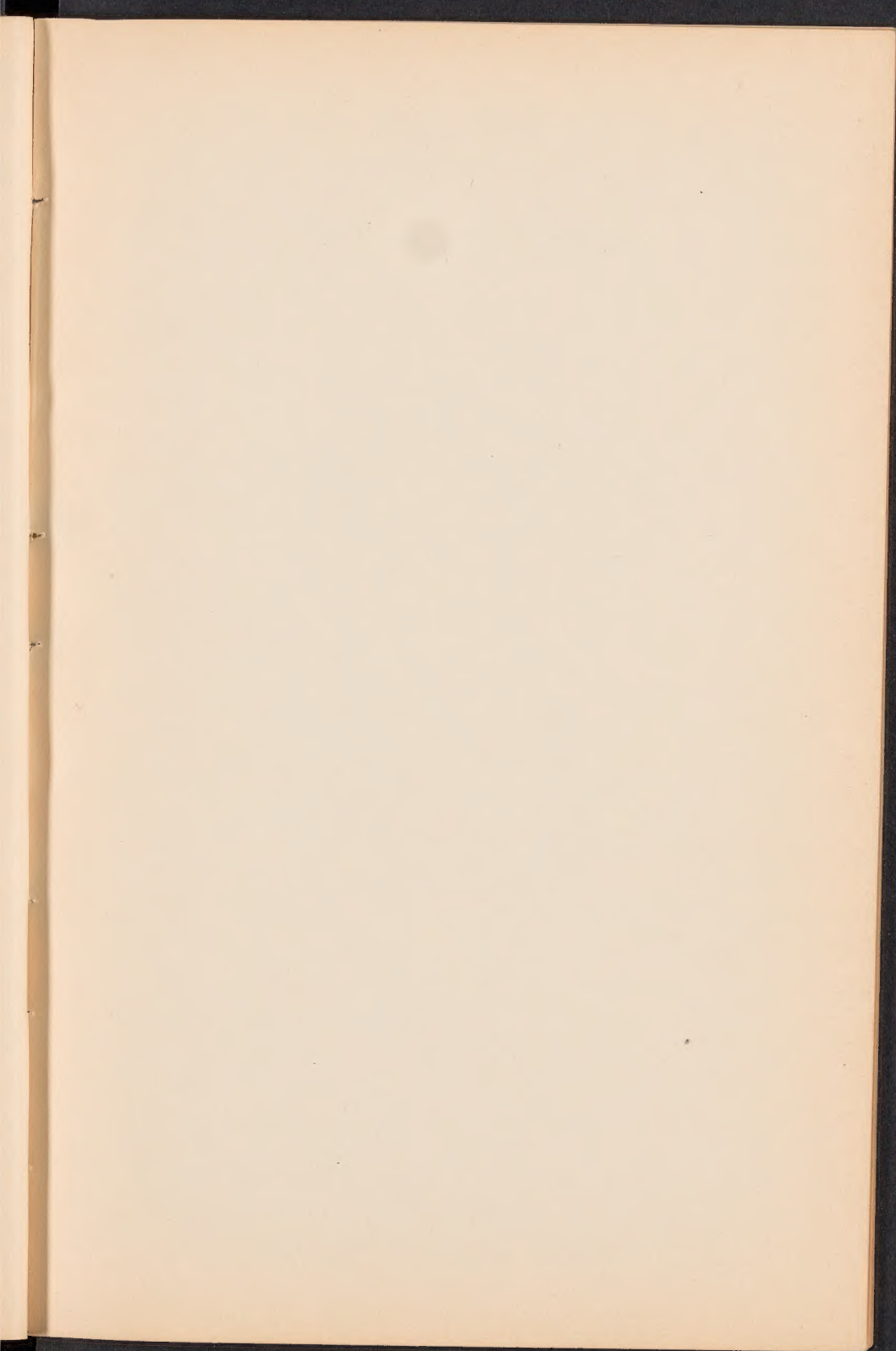
Carex paupercula

Common by ponds on the Serpentine.

C. paupercula, var. irrigua.

Bogs and pond-shores.

C.



Comice - 3 yms. later. fruit eaten after frost.
Gala = 2nd.
White of new beer = 2nd.
Bevis = 3 yms. later

